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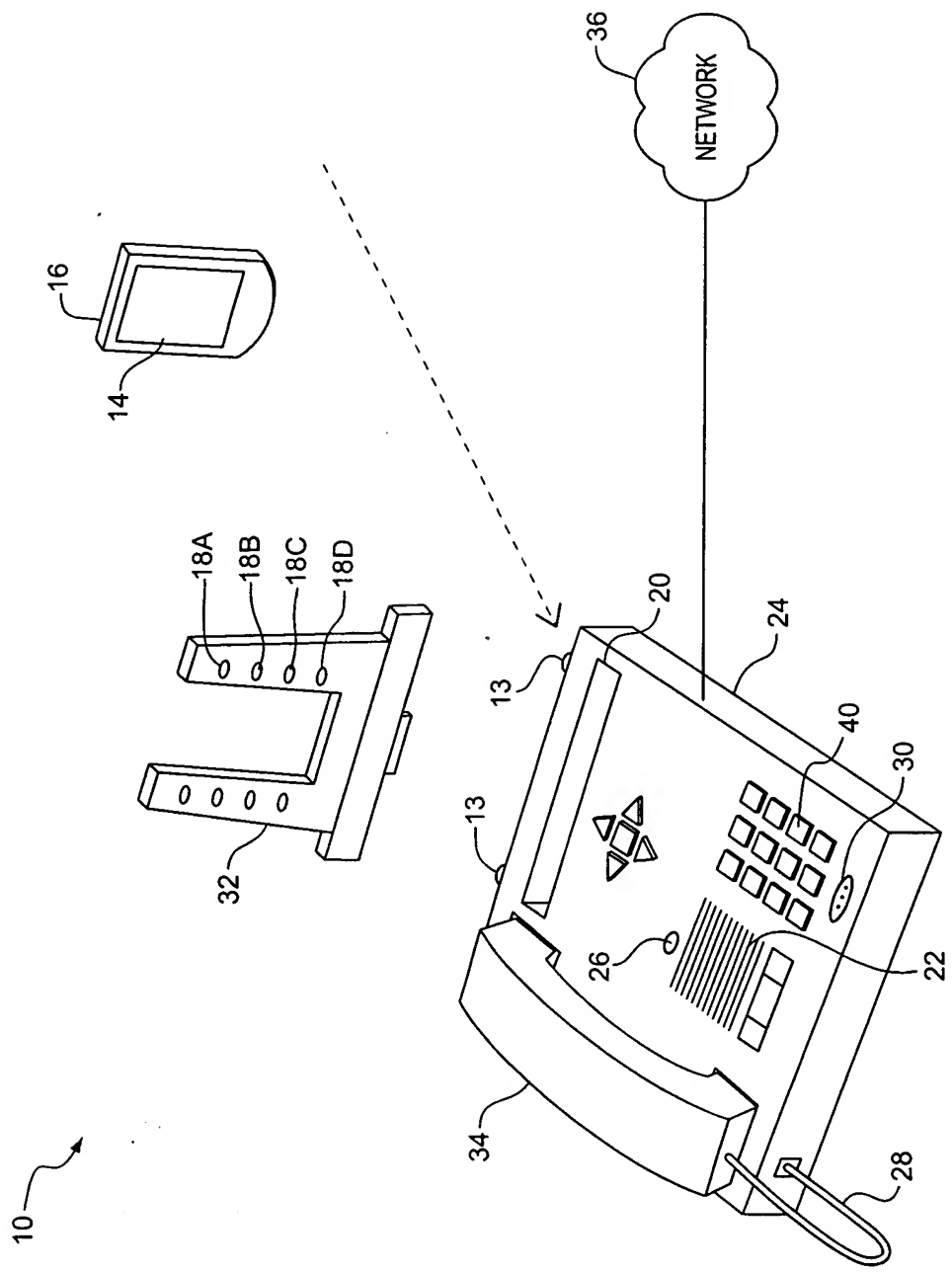


FIG. 1

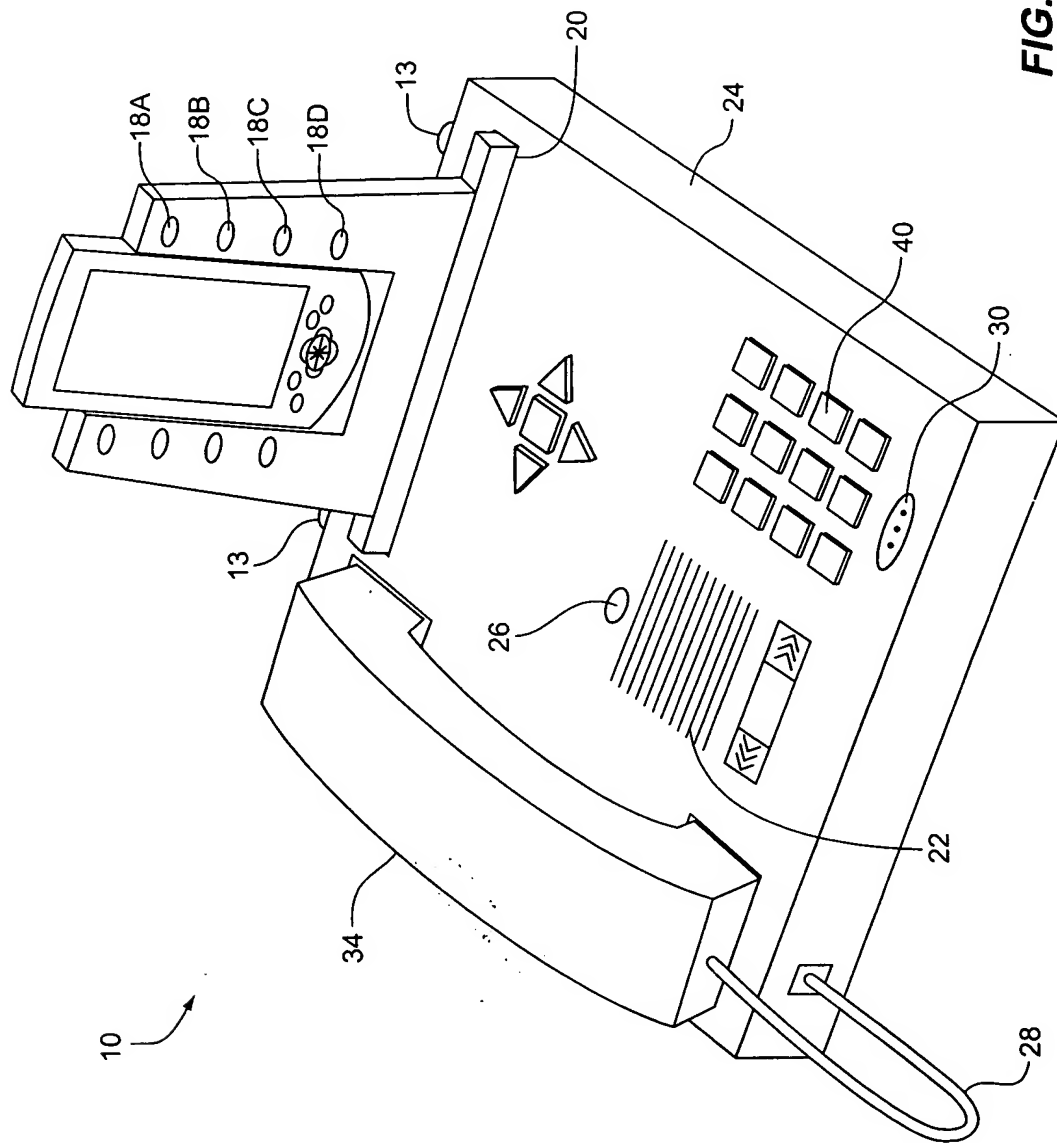
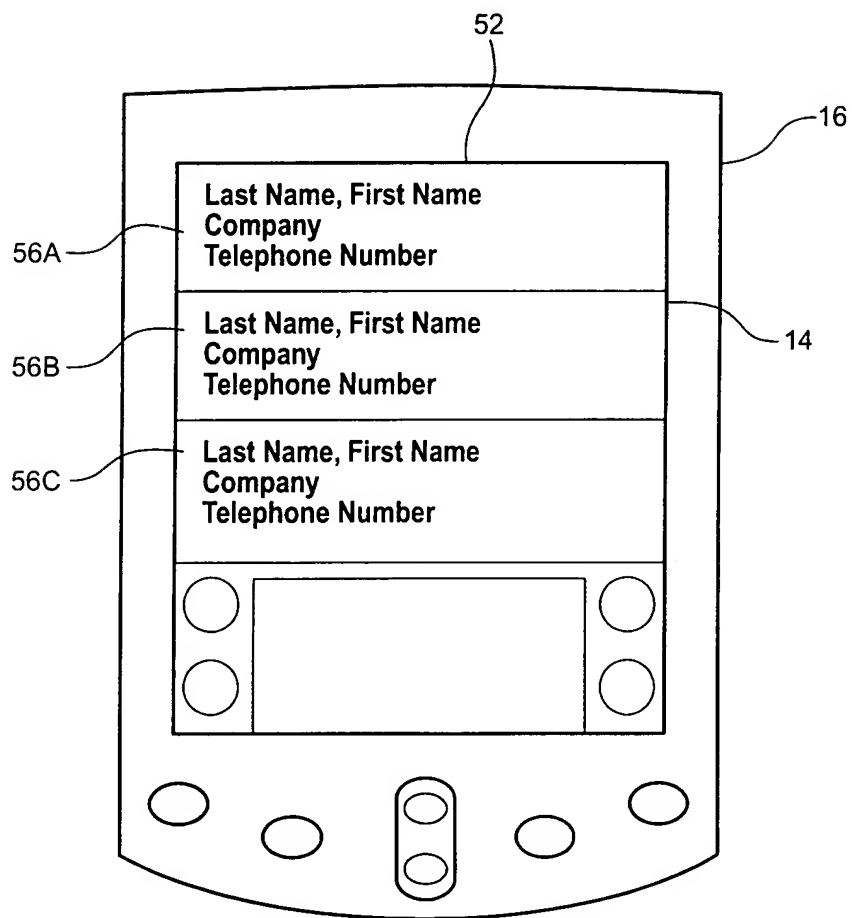


FIG. 2

FIG. 3B



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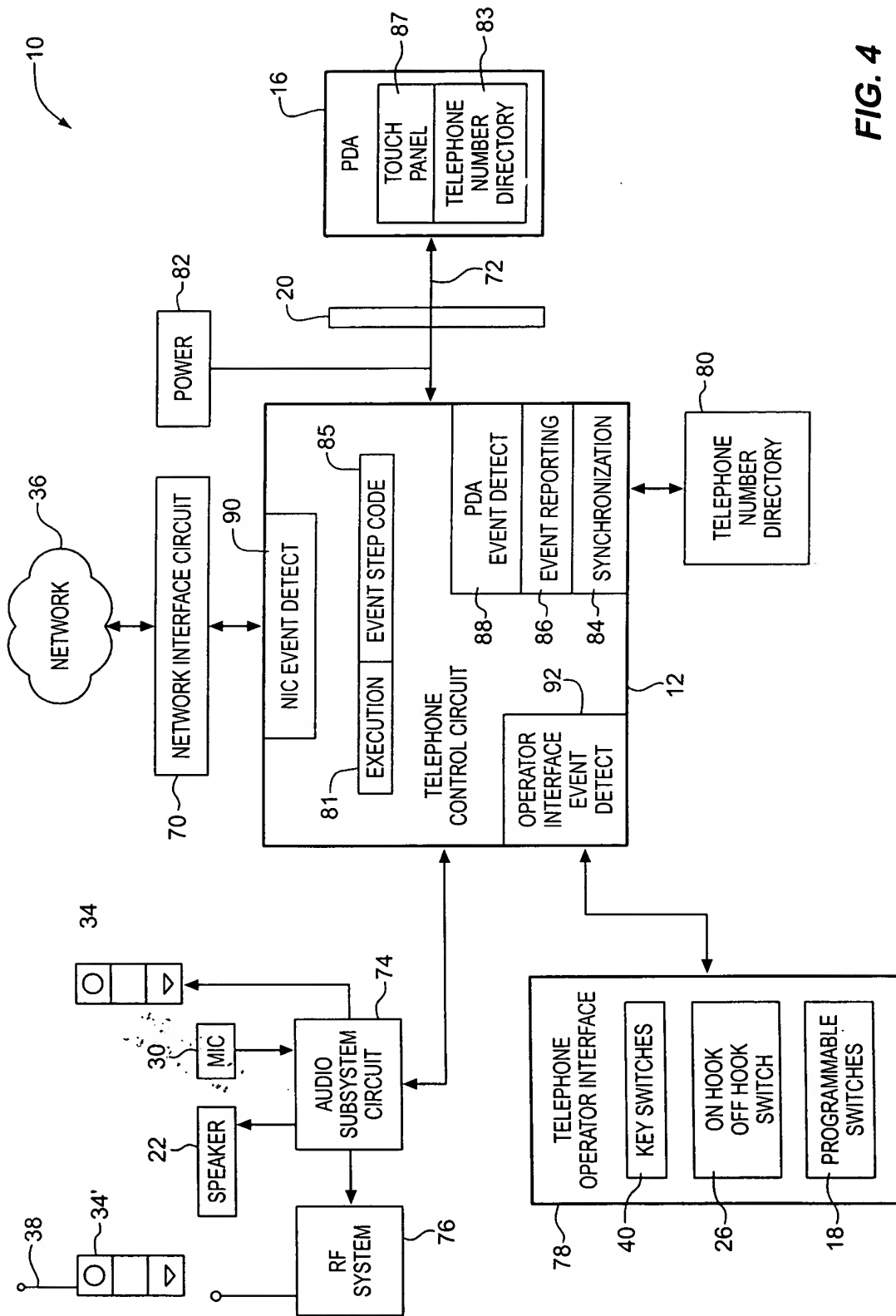


FIG. 4

CURRENT STATE	OPERATOR INTERFACE EVENT	TELEPHONE NETWORK INTERFACE EVENT	PDA EVENT	PROCESSING STEPS
STANDBY	OFF HOOK EVENT		OFF HOOK EVENT	TRANSITION TO OFF HOOK DT STATE
STANDBY		RINGING EVENT		TRANSITION TO RING STATE
STANDBY	TELEPHONE DIRECTORY SELECTION EVENT		TELEPHONE DIRECTORY SELECTION EVENT	TRANSITION TO OFF HOOK DT STATE DIAL IN ACCORDANCE WITH SELECTED TELEPHONE NUMBER
RING	OFF HOOK EVENT		OFF HOOK EVENT	TRANSITION TO OFF HOOK DT STATE
RING		RECEIVE CALLER ID		REPORT CALLER ID INFORMATION TO PDA
RING		TERMINATION OF RING EVENT		TRANSITION TO STANDBY STATE
OFF HOOK CALL	ON HOOK EVENT		ON HOOK EVENT	TRANSITION TO STANDBY STATE
OFF HOOK CALL		TERMINATION OF AUDIO STREAM		TRANSITION TO STANDBY STATE
OFF HOOK CALL	KEY SWITCH ACTIVATION EVENT		KEY SWITCH ACTIVATION EVENT	GENERATE SCRATCH PAD TONE
OFF HOOK DT	ON HOOK EVENT		ON HOOK EVENT	TRANSITION TO STANDBY STATE
OFF HOOK DT	KEY SWITCH ACTIVATION EVENT		KEY SWITCH ACTIVATION EVENT	GENERATE SCRATCH PAD TONES SETUP CALL WITH DIALED TELEPHONE NUMBER

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FIG. 5

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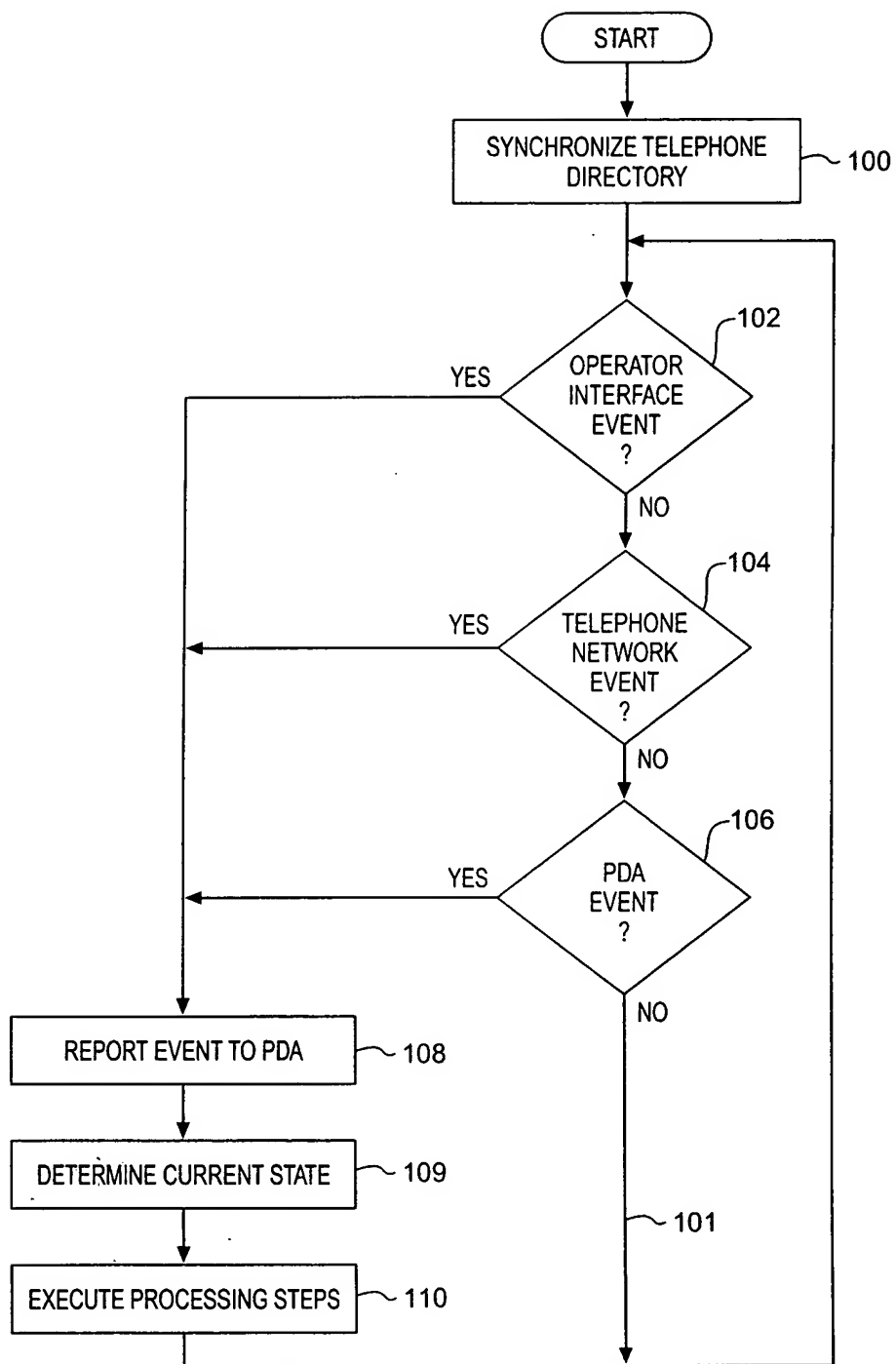


FIG. 6

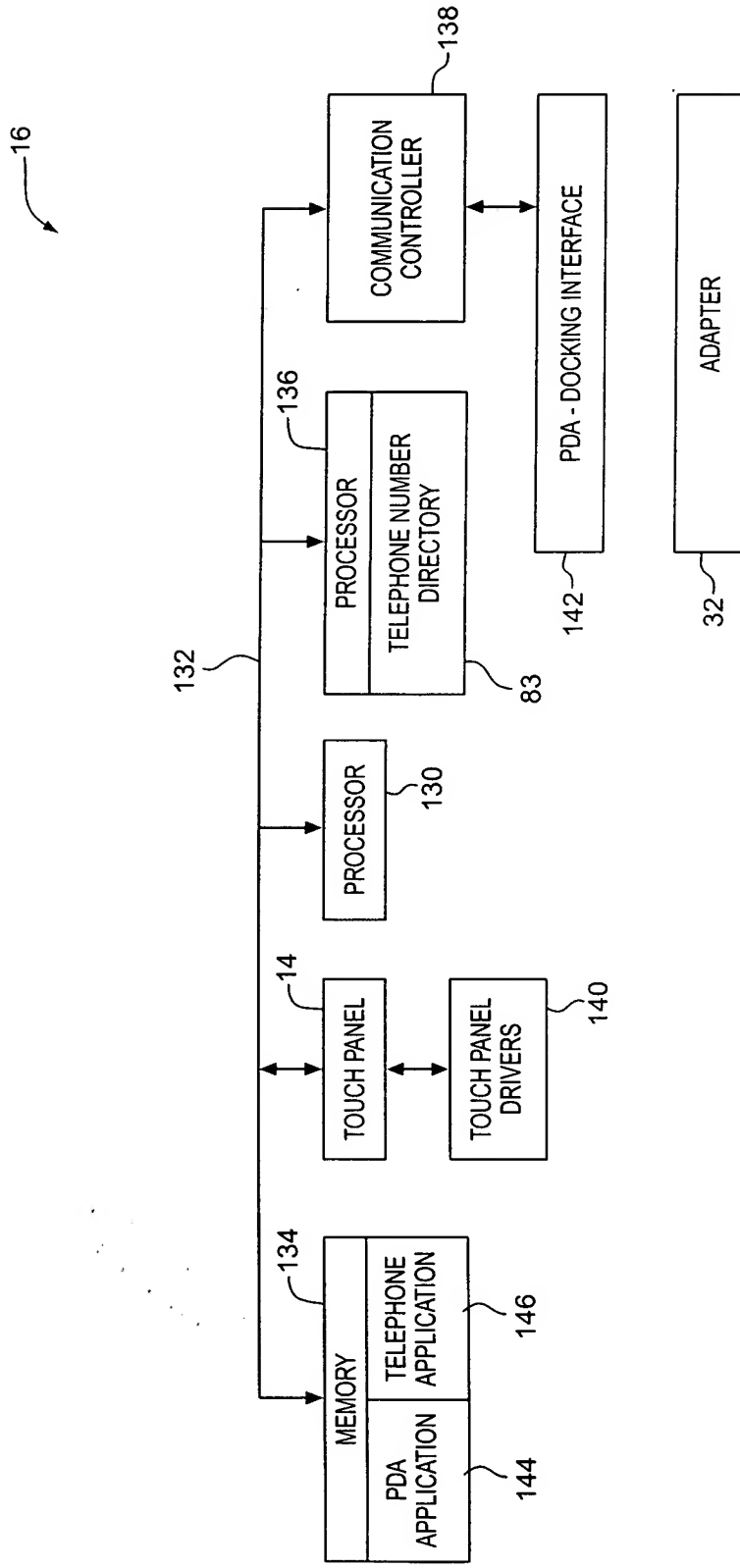


FIG. 7

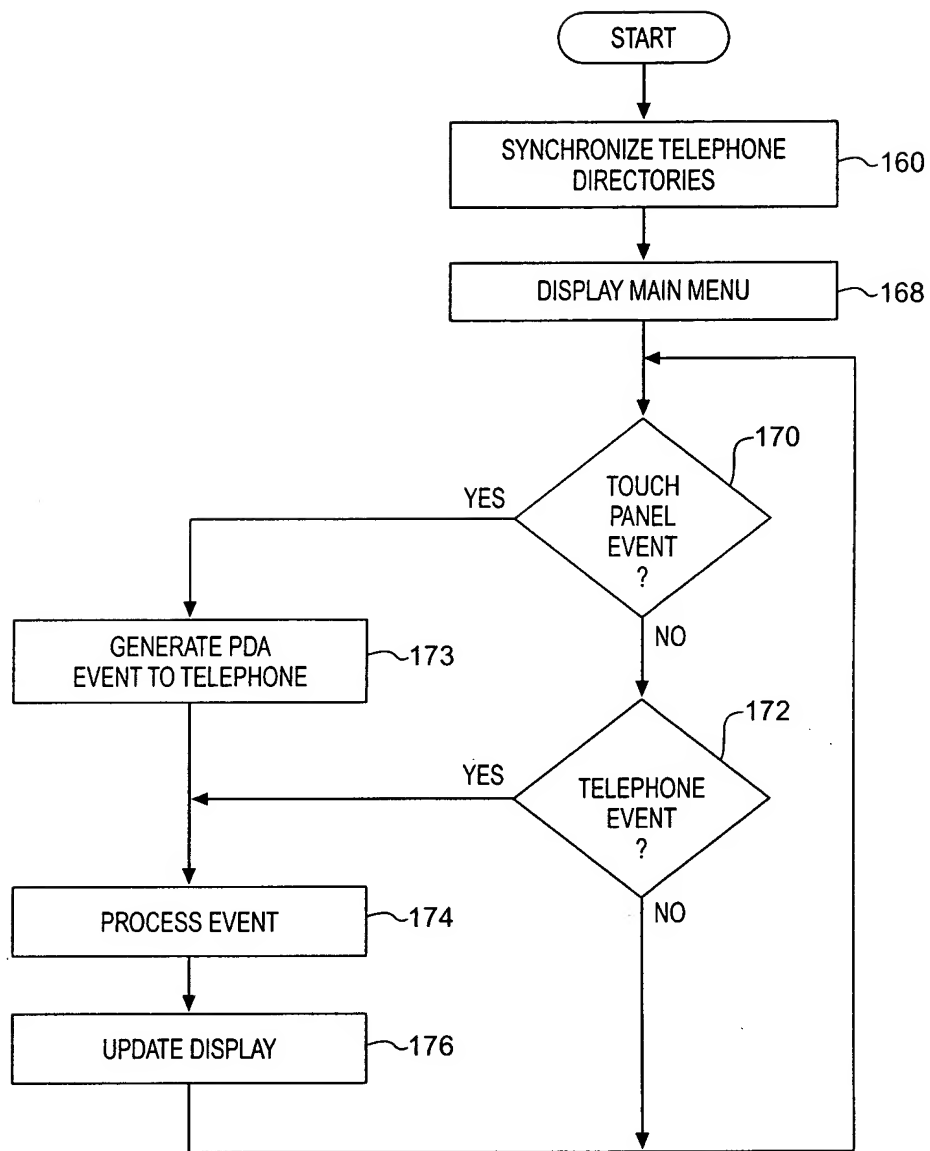


FIG. 8

START UP STATE - WAITING FOR EVENTS

EVENTS	STEPS
300 OPEN SESSION REQUEST ON PREDETERMINED PORT	<ul style="list-style-type: none"> • ESTABLISH NEW LOCAL COMMUNICATION DEVICE STATE MACHINE • ESTABLISH SESSION • SEND LOGON CONTROL SCRIPTS • GET CSS INTERFACE CONFIGURATION • PROVIDE MAIN MENU DISPLAY CONTENT • PROVIDE MAIN MENU LAYOUT CONTROL • GO TO MAIN MENU STATE

FIG. 8A

MAIN MENU STATE - WAITING FOR EVENTS

EVENTS	STEPS
302 MENU SELECTION	• GO TO SELECTED STATE
308 INITIALIZE WAN SUBSCRIBER DEVICE	<ul style="list-style-type: none"> • SEND ID EXTRACTION CONTROL SCRIPTS • GET SUBSCRIBER DEVICE ID • UPDATE NETWORK LOCATION TABLE • SYNCHRONIZE SUBSCRIBER CONTACT DIRECTORY • PROVIDE INITIAL DISPLAY CONTENT (MAIN MENU) • PROVIDE DISPLAY LAYOUT CONTROL • GO TO SUBSCRIBER DEVICE MAIN MENU STATE
310 HELP REQUEST	<ul style="list-style-type: none"> • SET UP AUDIO SESSION CHANNEL • TO AUDIO HELP CSS • GO TO AUDIO HELP STATE

FIG. 8B

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SUBSCRIBER DEVICE MAIN MENU STATE - WAITING FOR EVENTS	
EVENTS	STEPS
312 MENU SELECTION	• GO TO SELECTED STATE
320 HELP REQUEST	• PROVIDE HELP MENU DISPLAY CONTENT • PROVIDE HELP MENU DISPLAY LAYOUT CONTROL • GO TO GRAPHIC HELP STATE
322 MESSAGE REQUEST	• GET MESSAGES FROM REMOTE SYSTEM • SORT MESSAGES BY TYPE • PROVIDE MESSAGE LIST CONTENT
324 AUDIO MESSAGE REQUEST	• PROVIDE MESSAGE LIST LAYOUT CONTROL • GO TO MESSAGE LIST STATE
314 DIRECTORY REQUEST	• PROVIDE DIRECTORY CONTENT AND LAYOUT CONTROL • TRANSITION TO SUBSCRIBER DIRECTORY STATE
326 SUBSCRIBER DEVICE REMOVE	• GO TO MAIN MENU STATE

FIG. 8C

328

MESSAGE LIST STATE - WAITING FOR EVENTS	
EVENTS	STEPS
334 AUDIO MESSAGE SELECT	<ul style="list-style-type: none">• SEND AUDIO FILE TO CSS• PROVIDE PROCESSING SCRIPT TO OUTPUT FILE• GO TO AUDIO SESSION STATE
336 MESSAGE SELECT	<ul style="list-style-type: none">• PROVIDE MESSAGE DISPLAY CONTENT• PROVIDE MESSAGE DISPLAY LAYOUT CONTROL• GO TO MESSAGE DISPLAY STATE
338 MESSAGE PRINT	<ul style="list-style-type: none">• FORMAT MESSAGE CONTENT FOR PRINTER• SEND MESSAGE FILE TO PRINTER• GO TO MESSAGE LIST STATE
340 HELP REQUEST	<ul style="list-style-type: none">• PROVIDE HELP MENU DISPLAY CONTENT AND DISPLAY LAYOUT CONTROL• GO TO GRAPHIC HELP STATE
342 SUBSCRIBER DEVICE REMOVE	<ul style="list-style-type: none">• GO TO MAIN MENU STATE

FIG. 8D

370

SUBSCRIBER DIRECTORY STATE - WAITING FOR EVENTS	
EVENTS	STEPS
372 RECEIVE CONTACT SELECTION	<ul style="list-style-type: none">• PROVIDE CONTROL SCRIPT TO SETUP AUDIO SESSION WITH CONTACT• PROVIDE AUDIO SESSION DISPLAY CONTENT AND LAYOUT CONTROL• TRANSITION TO AUDIO SESSION STATE
374 HELP REQUEST	<ul style="list-style-type: none">• PROVIDE HELP MENU DISPLAY CONTENT AND DISPLAY LAYOUT CONTROL• GO TO GRAPHIC HELP STATE
378 SUBSCRIBER DEVICE REMOVE	<ul style="list-style-type: none">• GO TO MAIN MENU STATE

FIG. 8E

344																			
BASE STATE - WAITING FOR EVENTS																			
	<table> <tr> <th>EVENTS</th><th>STEPS</th></tr> <tr> <td>354 TOUCH PANEL</td><td> <ul style="list-style-type: none"> • REPORT TOUCH PANEL EVENT TO CONTROLLER • RETURN TO BASE STATE </td></tr> <tr> <td>356 SUBSCRIBER INTERFACE CONTROL BUTTON</td><td> <ul style="list-style-type: none"> • REPORT BUTTON ACTIVATION TO CONTROLLER AND PVA • RETURN TO BASE STATE </td></tr> <tr> <td>358 RECEIVE DISPLAY CONTENT AND LAYOUT CONTROL MESSAGES</td><td> <ul style="list-style-type: none"> • UPDATE DISPLAY • RETURN TO BASE STATE </td></tr> <tr> <td>360 RECEIVE PROCESSING SCRIPT</td><td> <ul style="list-style-type: none"> • PROCESS SCRIPT • RETURN TO BASE STATE </td></tr> <tr> <td>362 WAN TELEPHONE SIGNAL</td><td> <ul style="list-style-type: none"> • GO TO WAN STATE </td></tr> <tr> <td>364 DETECT SUBSCRIBER DEVICE</td><td> <ul style="list-style-type: none"> • SEND INITIALIZE SUBSCRIBER MESSAGE • RETURN TO BASE STATE </td></tr> <tr> <td>350 RECEIVE MESSAGES FROM CONTROLLER DIRECTED TO SUBSCRIBER DEVICE</td><td> <ul style="list-style-type: none"> • RELAY MESSAGES TO SUBSCRIBER DEVICE </td></tr> <tr> <td>352 RECEIVE MESSAGES FROM SUBSCRIBER DEVICE DIRECTED TO CONTROLLERS</td><td> <ul style="list-style-type: none"> • RELAY MESSAGES TO CONTROLLER </td></tr> </table>	EVENTS	STEPS	354 TOUCH PANEL	<ul style="list-style-type: none"> • REPORT TOUCH PANEL EVENT TO CONTROLLER • RETURN TO BASE STATE 	356 SUBSCRIBER INTERFACE CONTROL BUTTON	<ul style="list-style-type: none"> • REPORT BUTTON ACTIVATION TO CONTROLLER AND PVA • RETURN TO BASE STATE 	358 RECEIVE DISPLAY CONTENT AND LAYOUT CONTROL MESSAGES	<ul style="list-style-type: none"> • UPDATE DISPLAY • RETURN TO BASE STATE 	360 RECEIVE PROCESSING SCRIPT	<ul style="list-style-type: none"> • PROCESS SCRIPT • RETURN TO BASE STATE 	362 WAN TELEPHONE SIGNAL	<ul style="list-style-type: none"> • GO TO WAN STATE 	364 DETECT SUBSCRIBER DEVICE	<ul style="list-style-type: none"> • SEND INITIALIZE SUBSCRIBER MESSAGE • RETURN TO BASE STATE 	350 RECEIVE MESSAGES FROM CONTROLLER DIRECTED TO SUBSCRIBER DEVICE	<ul style="list-style-type: none"> • RELAY MESSAGES TO SUBSCRIBER DEVICE 	352 RECEIVE MESSAGES FROM SUBSCRIBER DEVICE DIRECTED TO CONTROLLERS	<ul style="list-style-type: none"> • RELAY MESSAGES TO CONTROLLER
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346																			
START UP - WAITING FOR EVENTS																			
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FIG. 9

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STANDBY STATE - WAITING FOR EVENTS	
EVENTS	STEPS
388 AUDIO SESSION SIGNAL FROM PACKET VOICE GATEWAY	<ul style="list-style-type: none">• TRANSITION TO CALL SIGNALING STATE• REPORT STATE TRANSITION TO CSS APPLICATION
390 SUBSCRIBER INTERFACE CONTROL (OFF HOOK)	<ul style="list-style-type: none">• TRANSITION TO OFF HOOK STATE• REPORT STATE TRANSITION TO CSS APPLICATION
392 SESSION SETUP EVENT FROM CSS APPLICATION	<ul style="list-style-type: none">• SEND CALL SIGNALING MESSAGE TO GATEWAY• TRANSITION TO CALL SIGNALING STATE• REPORT TRANSITION TO CSS

382

CALL SIGNALING STATE - WAITING FOR EVENTS	
EVENTS	STEPS
394 ON HOOK EVENT	<ul style="list-style-type: none">• RETURN TO STANDBY STATE• REPORT STATE TRANSITION TO CSS APPLICATION
396 TERMINATION OF SIGNALING	<ul style="list-style-type: none">• RETURN TO STANDBY STATE• REPORT STATE TRANSITION TO CSS APPLICATION
398 READY FOR AUDIO SESSION	<ul style="list-style-type: none">• TRANSITION TO AUDIO SESSION STATE• REPORT STATE TRANSITION TO CSS APPLICATION

FIG. 10A

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OFF HOOK STATE - WAITING FOR EVENTS	
EVENTS	STEPS
400 SUBSCRIBER INTERFACE CONTROL (KEY PAD ACTIVATION) FROM CSS APPLICATION	• GENERATE DTMF TONE
402 VALIDATION OF NUMBER SEQUENCE	• SEND CALL SIGNALING MESSAGES TO GATEWAY • TRANSITION TO CALL SIGNALING STATE • REPORT TRANSITION TO CSS APPLICATION
404 SUBSCRIBER INTERFACE CONTROL (ON HOOK)	• RETURN TO STANDBY STATE

386

AUDIO SESSION STATE - WAITING FOR EVENTS	
EVENTS	STEPS
406 TERMINATION OF AUDIO SESSION	• RETURN TO OFF HOOK STATE
408 SUBSCRIBER INTERFACE CONTROL (KEY PAD ACTIVATION)	• GENERATE DTMF TONE
410 SUBSCRIBER INTERFACE CONTROL (ON HOOK) FROM CSS APPLICATION	• RETURN TO STANDBY STATE

FIG. 10B